### PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 24 AND BEL AIR SOUTH PARKWAY IN HARFORD COUNTY. THE WORK IS NECESSITATED BY THE CONSTRUCTION OF A SOUTHBOUND MD 24 DOUBLE LEFT TURN LANE AND WILL CONSIST OF THE REPLACEMENT OF VEHICLE DETECTION. MD 24 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

### INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A NEMA SIX-PHASE, FULLY-TRAFFIC-ACTUATED MODE WITH EXCLUSIVE LEFT TURN PHASES FOR NORTHBOUND AND SOUTHBOUND MD 24 AND SIDE STREET SPLIT PHASING. AN ALTERNATE PEDESTRIAN CROSSING PHASE IS PROVIDED FOR THE SOUTH LEG OF MD 24. THIS PHASING WILL NOT CHANGE.

# CONTROLLER REQUIREMENTS

THE EXISTING EIGHT-PHASE, FULLY-ACTUATED CONTROLLER HOUSED IN A POLE MOUNTED CABINET WILL BE USED.

# CONTACT PERSONS FOR DISTRICT 4 ARE AS FOLLOWS:

MRS. ERIN KUHN

ASSISTANT DISTRICT ENGINEER - TRAFFIC (410) 321-2781

MR. ANDRE FUTRELL

ASSISTANT DISTRICT ENGINEER - MAINTENANCE (410) 321-2761

MR. MICHAEL PASQUARIELLO ASSISTANT DISTRICT ENGINEER - UTILITIES

(410) 321-2841

### CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR. CHIEF, TRAFFIC OPERATIONS (410) 787-7630

CHIEF SIGN OPERATIONS (410) 787-7676

MR, ROBERT SNYDER ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS

(410) 787-7631

SUPPLY OFFICE CHIEF SIGNAL SHOP WAREHOUSE (410) 787-7668

MR. EUGENE BAILEY

MS. DARLENE EIDE

MR. ED RODENHIZER CHIEF SIGNAL OPERATIONS (410) 787-7652

# **EQUIPMENT LIST "A"**

A EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

ITEM NO. **QUANTITY DESCRIPTION** 

NONE

# EQUIPMENT LIST "B"

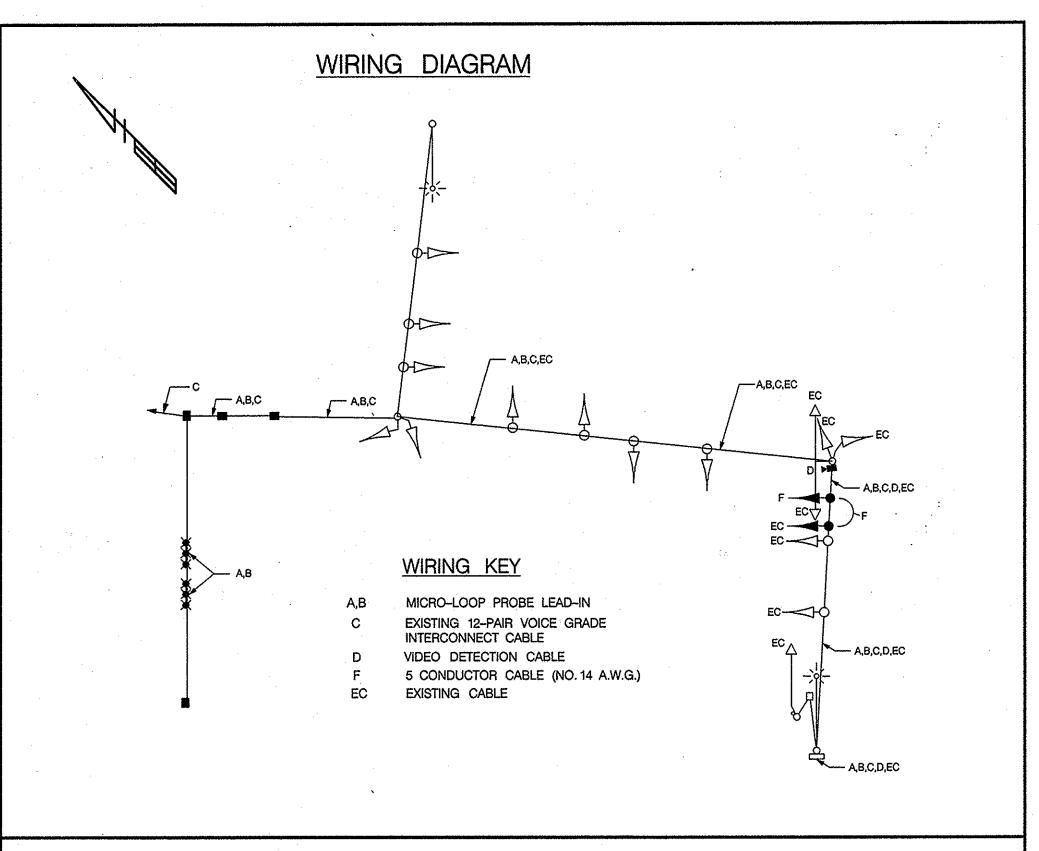
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

<u>DESCRIPTION</u>
MAINTENANCE OF TRAFFIC
MOBILIZATION
REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT
DISCONNECT, PULL BACK AND REPOUTE EXISTING INTERCONNECT CABLE
12-PAIR VOICE GRADE INTERCONNECT CABLE
3 IN SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
3 IN. SCHEDULE 80 RIGID PVC CONDUIT - BORED
ELECTRICAL HANDHOLE
MICRO-LOOP PROBE SET WITH 1000 FT. LEAD-IN
ECONOLITE VIDEO INTERFACE EQUIPMENT RACK
ECONOLITE "TERRA" VIDEO DETECTION CAMERA WITH 200 FT. LEAD-IN CABLE
24 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
5 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
12" L.E.D. 3-SECTION SIGNAL HEAD (RA,YA,GA) WITH SPAN WIRE MOUNTING HARDWARE
SHEET ALUMINUM SIGN R3-5L (30" x 36") SPAN WIRE MOUNT
12" L.E.D. 3-SECTION SIGNAL HEAD (RA,YA,GA) WITH POLE MOUNTING HARDWARE

STEEL CABLE BACK-GUY AND ANCHOR

\* THE QUANTITY FOR NEW 12-PAIR INTERCONNECT CABLE IS A CONTINGENT ITEM. THE CONTRACTOR SHOULD ATTEMPT TO DISCONNECT, PULL BACK, AND REUSE THE EXISTING CABLE.

PHASING CHART



# EQUIPMENT LIST "C"

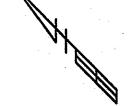
C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO. **QUANTITY** 

NONE

ALL SIGNAL EQUIPMENT TO BE REMOVED AND NOT RETURNED TO THE SHA SHALL

**DESCRIPTION** 



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PHASE 1 + 5	<b>←</b> G—	<b>∢</b> -G	<b>∢</b> -G	R	R	<b>←</b> G—	<b>∢</b> -G	R	R	R	R	R	R	R	R —G→	DW	DW	DW	DW	
1 + 5 CHANGE	<b>←</b> Y—	<b>←</b> Y	<b>∢</b> -Y	R	R	<b>←</b> Y—	<b>∢</b> -Y	R	R	R	R	R	R	R		DW	DW	DW	DW	<b>V</b> <sub>T</sub>
PHASE 1 + 6	<b>←</b> R—	<b>←</b> R	<b>∢</b> -R	R	R	<b>∢</b> -G	<b>←</b> G—	G	G	R	R	R	R	R	R	DW	DW	DW	DW	<b>4</b> ——
1 CHANGE	<b>∢</b> -R—	<b>←</b> R—	<b>◆</b> -R	R	R	<b>←</b> Y —	<b>←</b> Y	Υ	Υ	R	R	R	R	R	R	DW	DW	DW	DW	H ← -
PHASE 2 + 5	<b>∢</b> -G	<b>∢</b> -G	<b>←</b> G—	G	G	<b>←</b> R	<b>∢</b> -R	R	R	R	R	R	R	R	-R G- <b>→</b>	DW	DW	DW	DW	
5 CHANGE	<b>∢</b> -Y—	<b>←</b> Y—	<b>←</b> Y—	Y	Υ	<b>←</b> R—	<b>∢</b> -R	R	R	R	R	R	R	R	Y <b>→</b>		DW	DW	DW	
PHASE 2 + 6	<b>←</b> R—	<b>∢</b> -R	<b>∢</b> -R	G	G	<b>∢</b> -R	<b>∢</b> -R	G	G	R	R	R	R	R	R	DW	DW	DW	DW	4
2 + 6 CHANGE	<b>∢</b> -R—	<b>◆</b> -R	<b>∢</b> -R	Υ	Υ	<b>∢</b> -R—	<b>←</b> R—	Y	Y	R	R	R	R	R	R	DW	DW	DW -	DW	<del>                                     </del>
PHASE 3	<b>∢</b> -R-	<b>∢</b> -R	<b>4</b> -R—	R	R	<b>∢</b> -R	<b>◆</b> -R	R	R	R	R	R	G—G—	<b>G</b> G	G	DW	DW	DW	DW	
3 CHANGE	<b>∢</b> -R	<b>∢</b> -R—	<b>←</b> R—	R	R.	<b>∢</b> -R	<b>∢</b> -R	R	R	R	R	R	Υ	Υ	Υ	DW	DW	DW	DW .	H
PHASE 4	<b>←</b> R—	<b></b> -R	<b>∢</b> -R	R	R	<b>←</b> R	<b>∢</b> -R	R	R	<b>G</b> —G—	G <b>d</b> —G—	G	R	R	R	DW	DW -	DW	DW	4
4 CHANGE	<b>∢</b> -R	<b>←</b> R—	<b>∢</b> R—	R	R	<b>◆</b> R	<b>∢</b> -R—	·R	R	Υ	Υ	Υ	R	R	R	DW	DW	DW	DW	H
PHASE 4 ALT	<b>4</b> -R—	<b>∢</b> -R	<b>∢</b> -R	R	R	<b>←</b> R—	<b>←</b> R—	R	R	G G—	<b>G</b> G—	G	R	R	R	FL-WK	FL-WK	FL-WK	FL-WK	1
PED CLEAR	<b>←</b> R—	<b>←</b> R	<b>4</b> -R	R	R	<b>←</b> R—	<b>←</b> R	R	R	G-G-	- G	G	R	R	R	FL-DW	FL-DW	FL-DW	FL-DW	
4 ALT CHANGE	<b>←</b> R—	<b>∢</b> -Ř—	<b>∢</b> -R	R	R	<b>←</b> R—	<b>∢</b> -R	R	R	Υ	. Y	Y	R	R	R	DW	DW	DW	DW	
FLASHING OPERATION	FL/RA	FL/RA	FL/RA	FL/Y	FL/Y	FL/RA	FL/RA	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	+ 4

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION PLAN MD 24 AND BEL AIR SOUTH PARKWAY

TRAFFIC CONCEPTS, INC.

325 Gambrills Road Suite E Gambrills, MD 21054

(410) 923-7101 FAX: (410) 923-6473 TRAFFIC@TRAFFIC-CONCEPTS.COM SCALE NONE DATE 12-8-08 CONTRACT NO. BW996M82 SHEET NO. 2 OF 2 DRAWING NO. TS-2571

FILE PATH: \$FILE\$ DATE: \$DATE\$